Certificate of Analysis

Magnesium Chloride Solution, 25mM:

 Part No.
 Size

 A351B
 750µl

 A351F
 25ml

 A351H
 1.2ml

Storage Conditions: See the Product Information Label for storage recommendations and expiration date.

Usage Note: Allow product to thaw completely, then mix well prior to use. Magnesium Chloride (MgCl₂) solutions tend to form concentration gradients upon freezing.

Quality Control Assays

Activity Assay

PCR Functional Assay: Magnesium Chloride Solution, 25mM, is tested for amplification performance in a polymerase chain reaction.

Magnesium Concentration: Magnesium concentration is confirmed spectrophotometrically using the Lancer method. The specification range is 25 mM + /-5%.

Contaminant Assay

Endonuclease Assay: One microgram of plasmid DNA is incubated in 50µl of 50mM KCI, 10mM Tris-HCI (pH 9.0 at 25°C), 0.1% Triton® X-100, 1.5mM MgCl₂ for 8 hours at 45°C, followed by 8 hours at 70°C. Following incubation, the plasmid DNA is visualized on an ethidium bromide-stained agarose gel to verify the absence of visible nicking.

Exonuclease Activity: One microgram of lambda DNA is incubated in 50µl of 50mM KCl, 10mM Tris-HCl (pH 9.0 at 25°C), 0.1% Triton® X-100, 1.5mM MgCl₂ for 8 hours at 45°C, followed by 8 hours at 70°C. Following incubation, the lambda DNA is visualized on an ethidium bromide-stained agarose gel to verify the absence of visible smearing.

RNase Assay: To test for RNase activity, 50ng of radiolabeled RNA is incubated with MgCl₂ at a final concentration of 5mM in a 25µl reaction volume for 2 hours at 37°C. Less than 3% of radiolabeled nucleotides are released as monitored by scintillation counting of TCA-precipitable and TCA-soluble material.



Signed by:

PCR Satisfaction Guarantee

Promega's PCR Systems, enzymes and reagents are proven in PCR to ensure reliable, high performance results. Your success is important to us. Our products are backed by a worldwide team of Technical Support scientists. Please contact them for applications or technical assistance. If you are not completely satisfied with any Promega PCR product we will send a replacement or refund your account.

That's Our PCR Guarantee!

Product must be within expiration date and have been stored and used in accordance with product literature. See Promega Product Insert for specific tests performed.

Ren Whele

R. Wheeler, Quality Assurance

Magnesium Chloride Solution

REF A3511 -30°C 1 -10°C Conc: 25mM 1.5ml



For Laboratory Use

Country of Origin USA

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ADA3511 00002542940



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